

**AMENDMENTS TO THE CLAIMS**

**This listing of claims will replace all prior versions and listings of claims in the application:**

**LISTING OF CLAIMS:**

1. (currently amended): A method for optimizing quality of service in a packet-switched domain of a mobile communication system, the method comprising:

sending, by a core network entity of said system, to a radio access network entity of said system a request for the setting-up or reconfiguration of a radio bearer for a packet session for a mobile station, said request comprising first information derived from quality of service information contained in a corresponding request received by said core network entity ; and

adding, by said core network entity, to said request second information, that is known at a level of said core network entity and which is used, together with said first information, to perform a call admission control at the radio level.

2. (previously presented): A method according to claim 1, wherein said second information comprise information representative of radio access capabilities of said mobile station.

3. (previously presented): A method according to claim 2, wherein said radio access capabilities comprise capabilities to support higher data rates.

4. (previously presented): A method according to claim 3, wherein said capabilities to support higher data rates comprise a multislot capability.

5. (previously presented): A method according to claim 3, wherein said capabilities to support higher data rates comprise a capability to support different data transfer modes.

6. (previously presented): A method according to claim 5, wherein said different data transfer modes comprise a General Packet Radio Service (GPRS) mode and an Enhanced General Packet Radio Service (EGPRS) mode.

7. (previously presented): A method according to claim 1, wherein said setting-up or reconfiguration of a radio bearer comprises the creation or modification of a Packet Flow Context.

8. (previously presented): A method according to claim 7, wherein said request for the setting-up or the reconfiguration of a corresponding radio bearer is sent in a CREATE BSS PFC message.

9. (previously presented): A network element for a core network entity (SGSN) of a mobile communication system, comprising:

means for sending to a radio access network entity of said system a request for the setting-up or reconfiguration of a radio bearer for a packet session for a mobile station, said request comprising first information derived from quality of service information contained in a corresponding request received by said core network entity; and

means for adding to said request second information, that is known at a level of said core network entity and which is used, together with said first information, to perform a call admission control at the radio level.

10. (cancelled).

11. (currently amended): A network element of a Radio Access Network entity (BSS) of a mobile communication system comprising:

a receiving module receiving from a core network entity of said system a request for the setting-up or reconfiguration of a radio bearer for a packet session for a mobile station, said request comprising first information derived from quality of service information contained in a corresponding request received by said core network entity and second information, known at a level of said core network entity and which is used, together with said first information, to perform a call admission control at the radio level.

12-15. (cancelled).

16. (previously presented): The method according to claim 1, further comprising performing a call admission control at the radio level based on said first information together with said second information.

17. (currently amended): The network element according to claim 9, further comprising means for performing a call admission control at the radio level based on said first information together with said second information.

18. (previously presented): The network element according to claim 11, wherein said second information comprises information representative of radio access capabilities of said mobile station.

19. (previously presented): The network element according to claim 9, wherein said second information comprise information representative of radio access capabilities of said mobile station.

20. (previously presented): The network element according to claim 19, wherein said radio access capabilities comprise capabilities to support higher data rates.

21. (previously presented): The network element according to claim 20, wherein said capabilities to support higher data rates comprise a multislot capability.

22. (previously presented): The network element according to claim 20, wherein said capabilities to support higher data rates comprise a capability to support different data transfer modes.

23. (previously presented): The network element according to claim 22, wherein said different data transfer modes comprise a General Packet Radio Service (GPRS) mode and an Enhanced General Packet Radio Service (EGPRS) mode.

24. (previously presented): The network element according to claim 9, wherein said setting-up or reconfiguration of a radio bearer comprises the creation or modification of a Packet Flow Context.

25. (previously presented): The network element according to claim 24, wherein said request for the setting-up or the reconfiguration of a corresponding radio bearer is sent in a CREATE BSS PFC message.

26. (previously presented): The network element according to claim 18, wherein said radio access capabilities comprise capabilities to support higher data rates.

27. (previously presented): The network element according to claim 26, wherein said capabilities to support higher data rates comprise a multislot capability.

28. (previously presented): The network element according to claim 26, wherein said capabilities to support higher data rates comprise a capability to support different data transfer modes.

29. (previously presented): The network element according to claim 28, wherein said different data transfer modes comprise a General Packet Radio Service (GPRS) mode and an Enhanced General Packet Radio Service (EGPRS) mode.

30. (previously presented): The network element according to claim 11, wherein said setting-up or reconfiguration of a radio bearer comprises the creation or modification of a Packet Flow Context.

31. (previously presented): The network element according to claim 30, wherein said request for the setting-up or the reconfiguration of a corresponding radio bearer is sent in a CREATE BSS PFC message.

32. (previously presented): The network element according to claim 11 further comprising means for performing a call admission control at the radio level based on said first information together with said second information.

33. (canceled).

34. (previously presented): The method according to claim 1, wherein the request is a request for setting-up the radio bearer for a new packet session for the mobile station.

35. (new): The method according to claim 1, wherein the request for the setting-up or the reconfiguration of a corresponding radio bearer is sent in a CREATE BSS PFC message.